



OCTEK INC.

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OCTEK INC.

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SIGGRAPH

PRESS RELEASE

August 3, 1981

OCTEK DEMONSTRATES EYES FOR ROBOTS AT SIGGRAPH

Octek, a Burlington, MA. manufacturer of computer vision systems, will demonstrate a new product, the Model 4200 Vision Module, at SIGGRAPH. The product is a programmable vision system that can locate an object's position or orientation to guide an industrial robot. In addition, the 4200 can perform non-contact visual inspection. The Robot Vision Module can compare an object's features with a reference standard and report defects. The 4200 can also measure an object's size, area, perimeter, locate or count objects and holes.

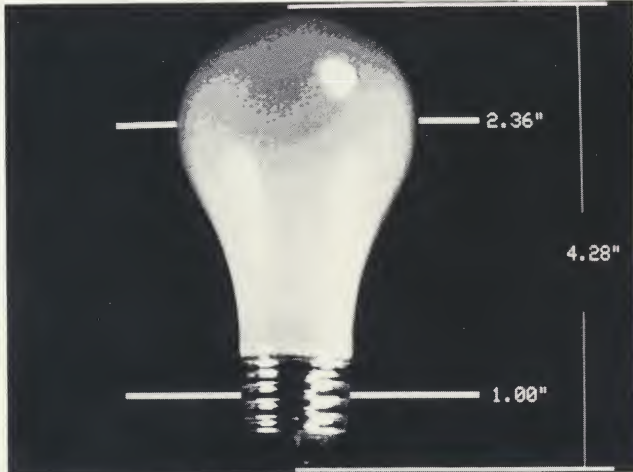
The product can be used to inspect manufactured items or provide vision for automated assembly machines for under \$10,000. Octek's Robot Vision Module will be on display at the Dallas Convention Center, Booth 856, August 4-6.



A NEW WORLD OF APPLICATIONS for your DG Computer using the Octek 2000

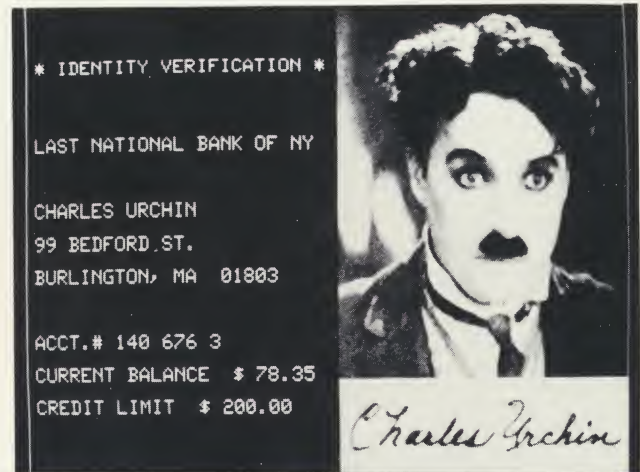
PRODUCT INSPECTION

The Octek 2000 can visually inspect parts for size or shape defects.



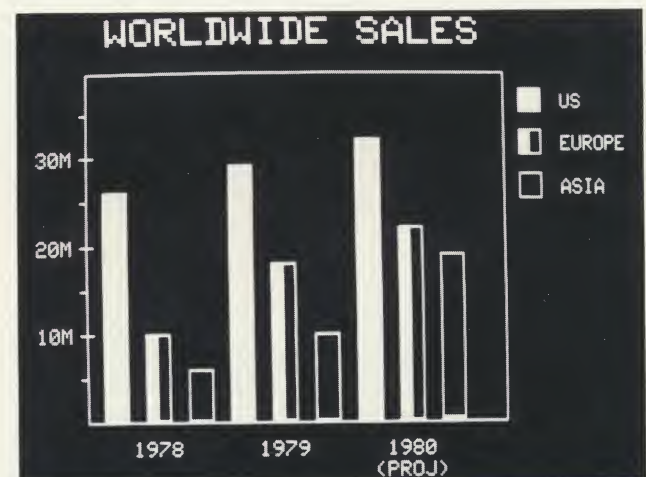
IDENTITY VERIFICATION

The Octek 2000 can store and selectively retrieve images using computer disc or tape media.



MEDICAL IMAGING

The Octek 2000 can process and display x-ray, ultrasound and nuclear camera pictures in greyscale or pseudo color.



COMPUTER GRAPHICS

The Octek 2000 can display line drawings, bar charts and graphs in color or black and white.

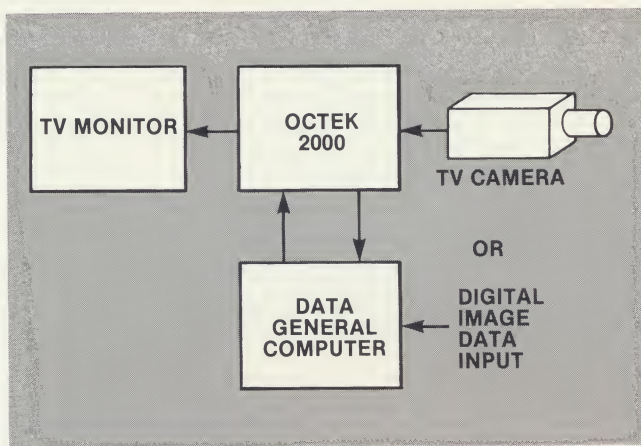
Your Questions Answered . . .

WHAT IS THE OCTEK 2000?

The Octek 2000 is a new peripheral device that enables any Data General Computer to process picture data as easily as regular data. It is fully contained on a single 15" x 15" board that plugs into the Data General Computer.

WHAT ROLE DOES THE OCTEK 2000 PLAY IN PICTURE PROCESSING/ANALYSIS?

The Octek 2000 implements a marriage between the video world (picture data) and the computer world (numeric data).



To create this marriage, the Octek 2000 performs several key functions:

- **Video Digitization**

The Octek 2000 translates picture data coming from a video source into a stream of numeric data.

- **Frame Storage**

The Octek 2000 internally stores a full screen picture of digitized data.

- **Display**

The Octek 2000 displays the stored picture on a conventional TV monitor in black and white or color. Additionally, the Octek 2000 permits the Data General computer to generate its own synthesized pictures (charts, graphs, cartoons . . .)

- **Data Processing**

The Octek 2000 permits the Data General Computer to examine and modify the stored digitized picture ("Image Processing"). The Model 2000 has its own internal micro-computer which can perform faster processing of the digitized picture.

HOW EASY IS THE OCTEK 2000 TO USE?

The Octek 2000 is supplied with a powerful software package that enables a user to concentrate on developing his application such as product inspection, fingerprint analysis . . . The programmer can use a high level language like Fortran and can make use of a library of Octek supplied utility software modules that perform many useful functions.

Octek offers, on a fee basis, consulting services to assist customers with their application problems.

WHAT DOES IT COST ME TO GET STARTED?

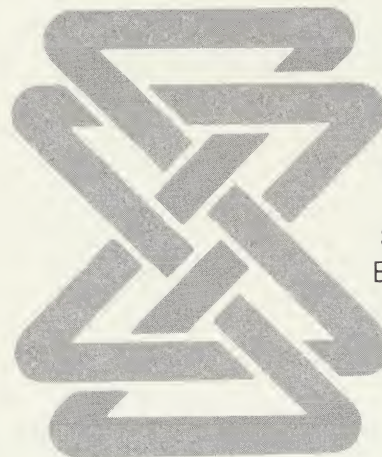
Octek has achieved a cost-performance breakthrough in image processing. The Octek 2000 sells for under \$10,000 in single unit quantity and for under \$5,000 in volume quantity.

You can buy an Octek 2000 and configure your own system. Complete, packaged systems are also available from Octek.

AT THIS LOW COST, DO I GET ENOUGH PERFORMANCE FOR MY TASK?

Yes, you do get enough performance for a large variety of tasks. The Octek 2000 has been deliberately designed with enough performance to satisfy many needs and be cost effective, yet it is not overdesigned.

Please call us with your application.



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THE OCTEK 4400 FONT DIGITIZING MODULE

Creates Fonts Automatically For Printers Or Display Terminals

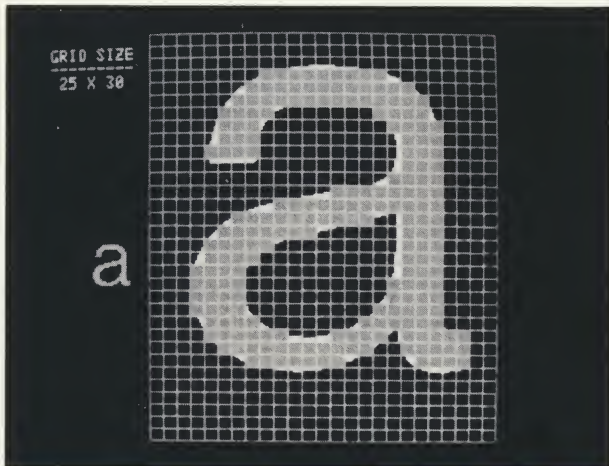
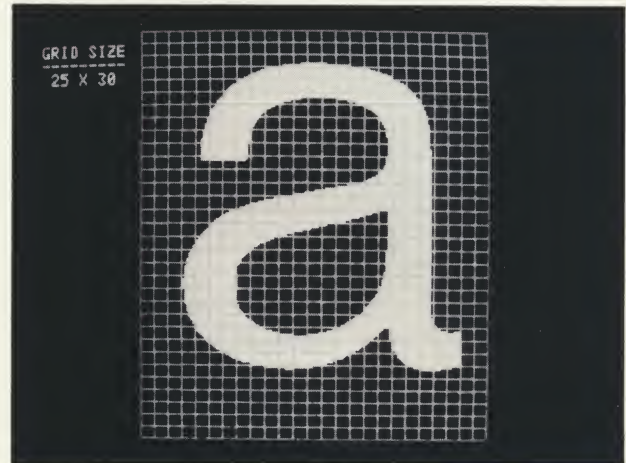
DIGITIZED CHARACTER

Fonts, logos and symbols are digitized in a fraction of a second.



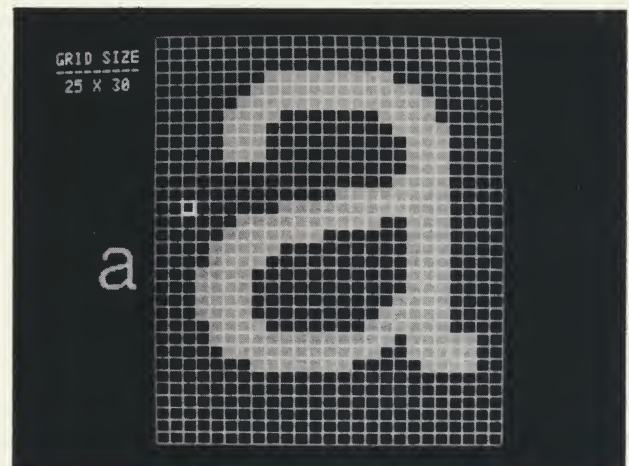
DOT MATRIX OVERLAY

Dot matrix formats from 5 x 7 to 160 x 200 dots can be specified from the keyboard.



MAPPED CHARACTER

Digitized characters are automatically mapped into the specified grid. A scaled character is displayed to the left of the grid.



EDITED CHARACTER

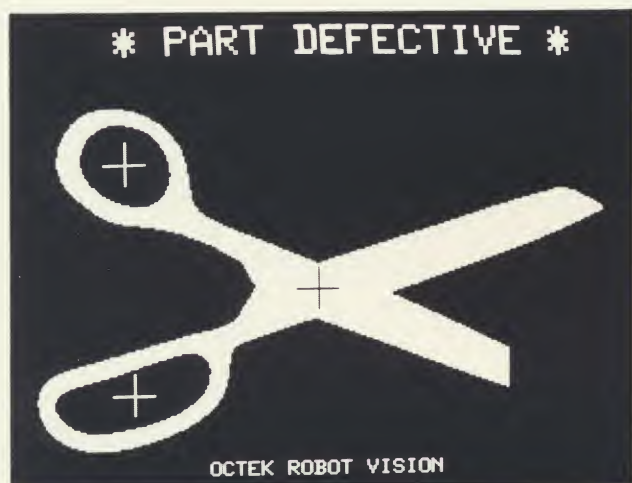
Interactive editing is accomplished with a graphics cursor and special keyboard.

THE OCTEK 4200 ROBOT VISION MODULE

Provides Cost Effective Visual Monitoring By Computer In A Wide Range Of Automatic Manufacturing And Inspection Processes

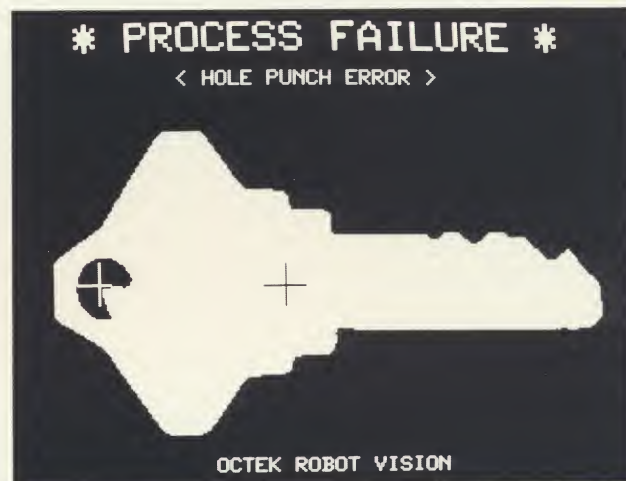
PRODUCT INSPECTION

The Octek 4200 can visually inspect parts for size, shape, or hole defects.



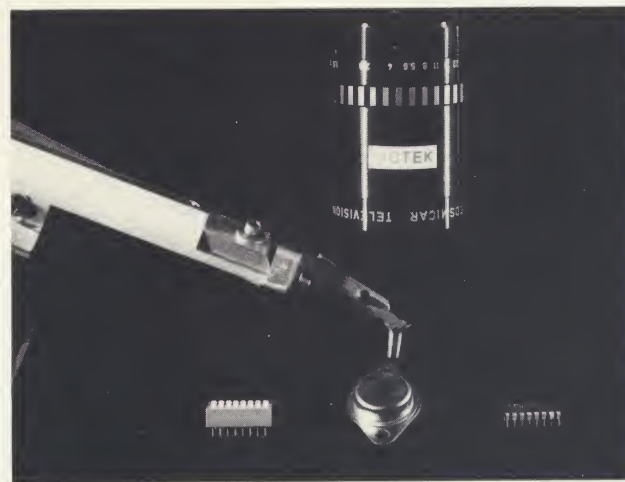
PROCESS VERIFICATION

The Octek 4200 can visually verify that a specific manufacturing operation was successfully performed.



PROCESS CONTROL

The Octek 4200 can direct and control an industrial process by visually monitoring the results of that process.



MACHINE VISION

The Octek 4200 can visually recognize and sort parts, check part orientation, and guide robot arms.



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Your Questions Answered . . .

WHAT IS THE OCTEK 4200 ROBOT VISION MODULE?

The Octek 4200 is a combination of the Octek Model 2000 Video Image Analyzer and a new high level image analysis software module. This combination gives a computer visual analysis capability.

WHAT DOES THE OCTEK 4200 ROBOT VISION MODULE DO?

When combined with a TV camera and any D.G. minicomputer the Octek 4200 visually counts objects and determines each object's size, shape and orientation. Additionally, it counts the number of holes in each object and classifies the size, shape, orientation, etc., of each hole.

WHAT CAN I DO WITH THE OCTEK 4200?

Some typical applications are:

- **Product Inspection**
 - Integrity and completeness
 - Cracks and burrs
 - Size and shape defects
 - Hole size, shape and placement
- **Robot and Machine Control**
 - Fastening operations
 - Parts sorting
 - Automated assembly
 - Parts positioning

HOW FAST CAN IT WORK?

Speed is somewhat dependent on the particular application and the geometric precision required. Many applications can be handled in fractions of a second.

HOW EASY IS THE OCTEK 4200 TO USE?

The Octek 4200 is easy to install in any Data General Computer. Programming is done in Fortran, using a powerful library of Octek supplied software modules.

WHAT PROGRAMMING HELP IS AVAILABLE?

Octek offers, on a fee basis, consulting services to assist customers with their application requirements.

WHAT DOES IT COST ME TO GET STARTED?

The Model 4200 Robot Vision Module is priced at less than \$10,000 in single unit quantity and less than \$5,500 in volume quantity. Full production inspection systems can be configured for under \$13,000 in volume.

Please call us with your application.



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